

AIR

25X1

ATTN:

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REFERENCE: [ ] dated 11 August 1954

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1. Samples of barrier materials are very scarce because of large scale burial testing program underway. It was our understanding that [ ] had received some of the barrier material over a year ago. As it appears this is not so, five (5) yards of the material will be sent to you immediately for use by [ ]. Inspection of the sample should reveal that it has high tensile strength and no trouble is anticipated in the aluminum foil being torn apart by a diagonal pull on the cloth. The weakest part of a package is at the heat seal.

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2. The barrier material is sealed by a commercially available heat sealer used for metal foil barrier materials at 490°F. with a dwell time of 10 seconds. A proper seal is indicated by the foil tearing when the seal is broken. The nylon scrim will just start to scorch as a proper seal is obtained. When submerged under water for some time delamination of the outer layer of foil may be noted. This is not desirable and can probably be prevented by a heavier outer layer of laminating vinyl film during any new production lot. As the material was designed for burial application it was not expected to be given any great mechanical stress except during handling to the burial site, during which times it will be inside an outer protective container such as a wooden box.

3. The Magnesium Match Heads have been extensively tested and no deterioration is expected during normal storage conditions. The observation might be made that the units can probably withstand adverse conditions better than the time pencils to which they are attached. As you know, the Magnesium Match

C/TSS/Admin \_\_\_\_\_

C/TSS/POS \_\_\_\_\_

WE/6 \_\_\_\_\_

Heads with time pencils

Chief, WS

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FILE

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Units with time pencils come as component parts of the Incendiary Pocket Time. These incendiary units are packed two to a hermetically sealed tin can. This packaging within metal cans should prevent any deterioration anticipated during bad storage conditions.

[Redacted]

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30 August 1954

Attachment:

1 5-yd roll Barrier Material sent separately

Distribution:

3 - Addressee

- 1 - WZ/6
- 1 - RI
- 1 - TSS/Admin/SRS
- 1 - TSS/Admin/LB
- 1 - Liaison-Munro File
- 1 - Match Head File
- ✓ 1 - Packaging File
- 1 - MD Chrono

DD/P/TSE/MD/[Redacted] cu

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